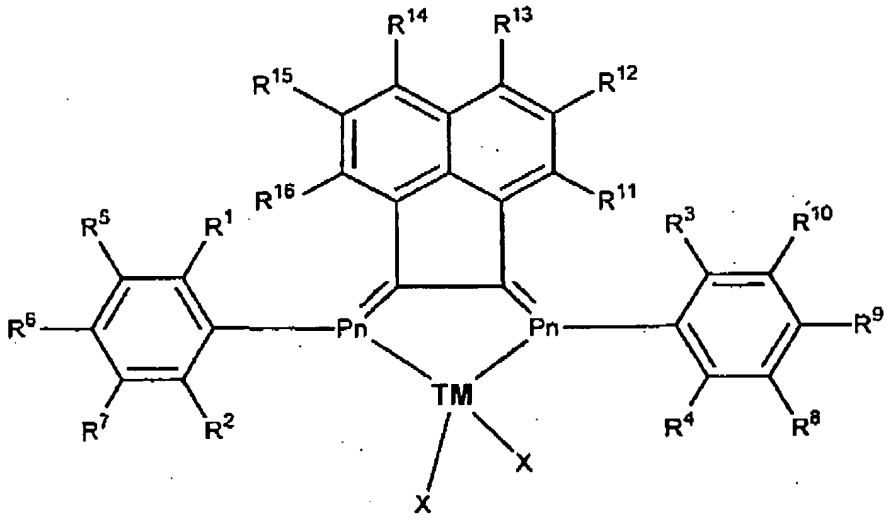
IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously presented) A composition comprising the product of combining, in the presence of a free radical initiator, at least one olefin monomer, and a catalyst precursor compound wherein the catalyst precursor compound is represented by the formula:



wherein

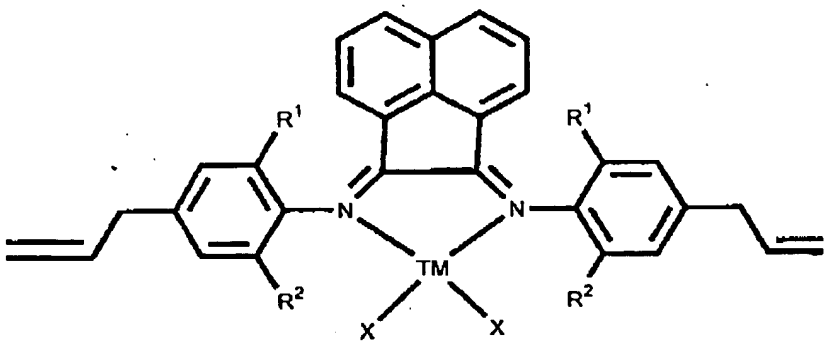
(a) R^1-R^{16} are hydrogen or hydrocarbyl radicals provided that at least one R^5-R^{10} or R^{11}-R^{16} is capable of polymerization by a free-radical-initiated polymerization reaction;

(b) TM is a Group-9-11 transition metal, except Ni;

(c) X represents an abstractable ligand; and

(d) Pn represents nitrogen.

2. (Previously presented) The composition of Claim 1 wherein the catalyst precursor compound is represented by the formula:



wherein

(a) each X is independently selected from abstractable ligands;

(b) R^1 and R^2 are independently hydrogen or hydrocarbyl groups;

and

(c) TM is a Group-9-11 metal, except Ni.

3. (Currently amended) The composition of Claim 2 wherein each R^1 and R^2 ~~are~~ is independently selected from the group consisting of hydrogen and a hydrocarbyl group.

4. (Currently amended) The composition of Claim 3 wherein each R^1 and R^2 ~~are~~ is independently selected from the group consisting of hydrogen and a C_1-C_{30} hydrocarbyl group.

5. (Currently amended) The composition of Claim 4 wherein each R^1 and R^2 ~~are~~ is independently selected from the group consisting of hydrogen and a C_1-C_{10} hydrocarbyl group.

6. (Cancelled)

7. (Currently amended) The composition of ~~Claim 6~~ Claim 1 wherein TM is Co.

8. (Previously presented) The composition of Claim 1 wherein the two abstractable ligands are hydride radicals; hydrocarbyl radicals; or hydrocarbyl-substituted, organometalloid radicals.

9. (Previously presented) The composition of Claim 8 wherein the two abstractable ligands join to form a 3-to-40-atom metallacycle ring.

10. (Previously presented) The composition of Claim 1, wherein the two abstractable ligands are halogen, alkoxide, aryloxide, amide, or phosphide radicals.

11. (Previously presented) The composition of Claim 1, wherein the two abstractable ligands are independently chloride, bromide, iodide, methyl, ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, eicosyl, heneicosyl, docosyl, tricosyl, tetracosyl, pentacosyl, hexacosyl, heptacosyl, octacosyl, nonacosyl, triacontyl, hydride, phenyl, benzyl, phenethyl, tolyl. methoxy, ethoxy, propoxy, butoxy, dimethylamino, diethylamino, methylethylamino, phenoxy, benzoxy, allyl, 1,1-dimethyl allyl, 2-carboxymethyl allyl, acetylacetonate, 1,1,1,5,5,5-hexa-fluoroacetylacetonate, 1,1,1-trifluoro-acetylacetonate, or 1,1,1 -trifluoro-5,5-di-methylacetylacetonate radicals.

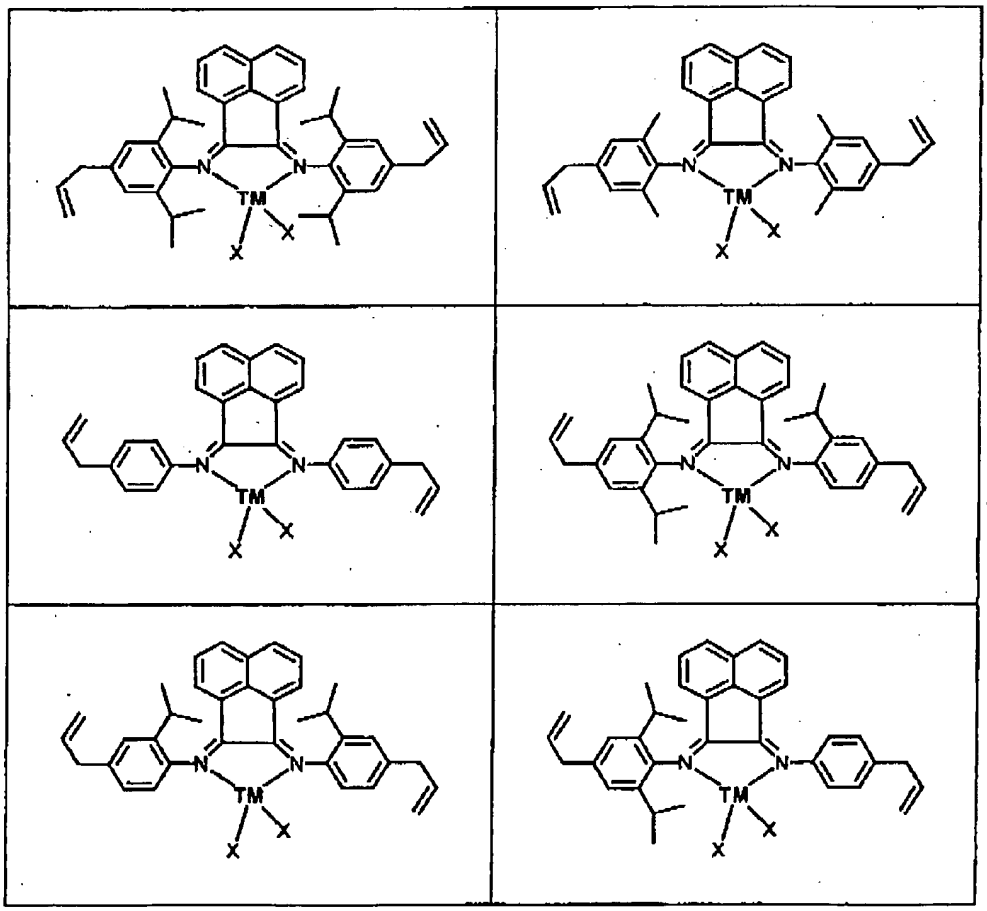
12. (Original) The composition of Claim 11 wherein at least one abstractable ligand is chloride or bromide.

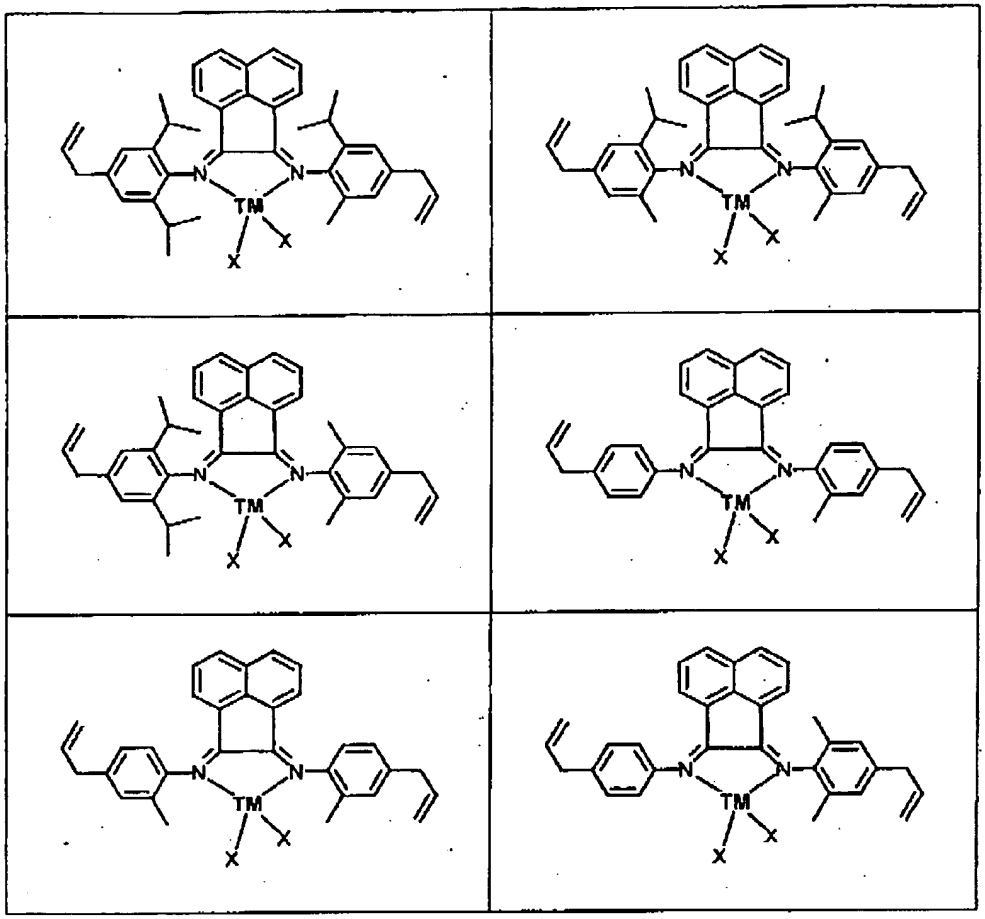
13. (Original) A composition comprising the reaction product of the composition of Claim 1 and an activator.

14. (Currently amended) The composition of Claim 13 wherein the activator is selected from the group consisting of alumoxanes, aluminum alkyls, alkyl aluminum halides, alkylaluminum alkoxides, discrete ionic activators, and Lewis acid activators.

15. (Currently amended) The composition of Claim 14 wherein the activator is ~~selected from~~ methylalumoxane, modified methylalumoxane, ethylalumoxane, trimethyl aluminum, triethyl aluminum, triisopropyl aluminum, diethyl aluminum chloride, alkylaluminum alkoxides, ammonium borate salts, phosphonium borate salts, triphenyl carbenium borate salts, ammonium aluminate salts, phosphonium aluminate salts, triphenyl carbenium aluminate salts, trisarylborane acids, ~~and~~ or polyhalogenated heteroborane anions.

16. (Previously presented) The composition of Claim 1 wherein the catalyst precursor compound is represented by the formulae:





17. (Cancelled)

18. (Currently amended) The composition of ~~Claim 17~~ Claim 16 wherein TM is Co.

19. (Currently amended) An olefin polymerization method comprising the step of contacting an olefin and the composition of Claim 1 in the presence of a cocatalyst.